

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 8 • OPENINGS

08 40 00 • ENTRANCES AND STOREFRONT

SECTION INCLUDES

Storefront
Insulated Panels
Glass and Glazing

RELATED SECTIONS

06 10 00 Rough Carpentry
06 20 00 Finish Carpentry
07 90 00 Sealants
08 10 00 Doors and Frames
08 70 00 Hardware
26 00 00 Electrical

TECHNICAL STANDARDS

AAMA – American Architectural Manufacturers Association

www.aamanet.org - source of performance standards, product certification and educational programs for the window, door and skylight industry.

AWS – American Welding Society www.aws.org D 1.2 “Structural Welding Code-Aluminum” This code contains the requirements for fabricating and erecting welded aluminum structures.

NAAMM – National Association of Architectural Metal Manufacturers

www.naamm.org - “Metal Finishes Manual for Architectural and Metal Products” Storefront

MATERIALS

Storefront entrance doors should be equal in quality to Kawneer medium style 350. Narrow style doors are not acceptable.

For heavily used doors consider balanced doors and concealed hinges for easier operation.

Doors should have a minimum 14 inch high bottom rail to serve as a kickplate.

Include insulated panels in this section

If the glass is installed in the door by the door manufacturer and arrives as one unit to the site, glass and glazing should be specified in the door section.

Tempered glass may be required.

DESIGN AND CONSTRUCTION GUIDELINES AND STANDARDS

DIVISION 8 • OPENINGS

08 40 00 • ENTRANCES AND STOREFRONT

DESIGN

Single leaf doors are sufficient to accommodate foot traffic in most applications; double doors are not as energy efficient.

Verify the units of exit width required by the building occupancy.

Meet ADA requirements for door width, operating force, threshold design, and space requirements for door location, etc.

Acceptable manufacturers of storefront and doors include ~

EFCO Corporation
Kawneer
Vistawall Architectural Products.
Diamond

STOREFRONT

Require shop drawings for aluminum-framed systems that include plans, elevations, sections, details, and attachments to other work, as well as ~ .

- ☐ structural analysis data signed and sealed by a qualified professional engineer registered in the Commonwealth of Massachusetts responsible for their preparation.
- ☐ structural analysis of story drift and deflection from anticipated live loads, and determination whether head receptors are required.
- ☐ details of provisions for system expansion and contraction and for draining moisture occurring within the system to the exterior.
- ☐ for entrances, include hardware schedule and indicate operating force, operating hardware types, functions, quantities, and locations.
- ☐ storefront and entrance systems should be constructed with thermal breaks and weatherstripping.

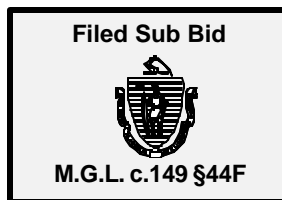
If steel reinforcement is required specify corrosion-resistant primer to protect against galvanic action.

METAL PANELS

Specify metal panels to be glazed into the storefront units by the storefront contractor. Include the R or U value of the metal panel units.

GLASS AND GLAZING

Require shop drawings for each type of glass and glazing material including proof that units as glazed for this Project meet or exceed Code requirements for the following: ~ U-value, Solar heat-gain coefficient, wind impact.



On a project costing more than \$100,000, calculate the value for site installed glass and glazing to determine if the value exceeds the \$20,000 threshold for a filed sub-bid. Doors are generally provided to the site pre-glazed and are not part of the filed sub-bid calculation.

Operable windows may be provided to the site pre-glazed or site-glazed. Preglazed windows are not considered in the cost calculation mentioned above

The intent for each project must be clearly specified.

